"WASP" (CROWN "HA-14") PLUG DRILL

INGERSOLL-RAND COMPANY

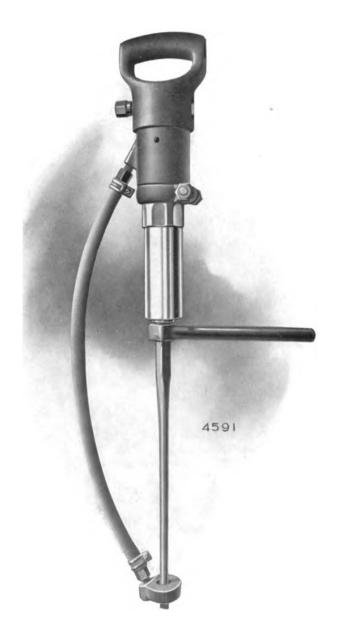
11 BROADWAY, NEW YORK

Form No. 4013

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Drilling a Plug Hole with the "Wasp" Plug Drill



The "Wasp" Plug Drill (Crown HA-14) Complete

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THE "WASP" PLUG DRILL

HE "Wasp" Plug Drill is one of the standard line of Ingersoll-Rand "Coor" designed for the lightest plug drilling work, being recommended only for 5% to 7%-inch holes, three to six inches deep. For this class of work it uses standard plug drill steels, with shanks 11/16 inch diameter by 25% inches long.

This is a push-handle type, in which pressure on the handle opens the throttle and admits air. When the handle is drawn back to withdraw the steel from the hole, the air is automatically shut off. A short length of hose leads a portion of the exhaust air to a dust-collar resting around the steel at the mouth of the hole; and this exhaust jet blows the hole free from dust and cuttings. Air admission is at the side of the head-block. The steel is rotated by means of a handle which fits the square of the steel.

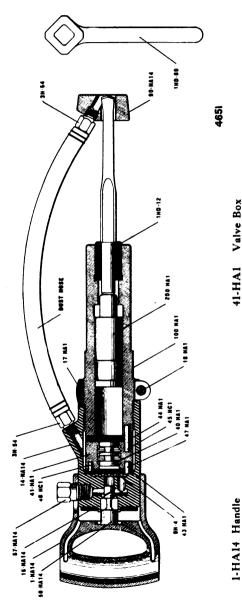
The "Wasp" has the latest form of "Crown" valve, travelling lengthwise of the drill. The cylinder is of special steel, hardened and ground in the bore. The piston or hammer is of hardened steel. The best materials are used throughout and the workmanship is unsurpassed, the result being a tool of high efficiency and splendid wearing qualities.

The specifications of this tool are as follows:

Cylinder diameter 1§	inches
Stroke 2½	
Length over all $17\frac{1}{2}$	inches
Size of Air Inlet	
Weight	

The following air consumptions have been recorded by this tool under test by a water-displacement air meter:

Air Pressure	Cu. Ft. Free Air per Min.
40 lbs.	10
50 ''	13
60 ''	17
70 ''	21
80 ''	25
90 ''	30
100 ''	35



Valve Box Bottom Dowel Valve Box Bottom Cap Valve Box Cap Dowel Valve Box Top Dowel Valve Box Top Cap **Chrottle Valve** Nipple 50-HA14 57-HA14 43-HA1 44-HA1 46-HC1 47-HA1 45-HC1 Cylinder Clamp Bolt Head Block Washer Cylinder Bushing Cylinder Clamp

Dust Hose Nozzle Rotating Handle 90-HA14 1HD-80

Hose Nipple

3H-54

Cylinder Clamp Bolt Washer

19-HA1 200-HA1 40-HA1

Piston Valve Duplicate Part List and Section of "Wasp" Plug Drill ("Crown HA-14")

Head Block

14-HA14 15-HA14 17.HA1 18.HA1

Inlet Screen

Cylinder

100-HA1

HD-12